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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/535,368	535,368 05/18/2005 Mathias W		DE02 0270 US	9383
65913 NXP, B.V.	7590 09/04/200	EXAMINER		
	ECTUAL PROPERTY	SALERNO, SARAH KATE		
1109 MCKAY	DRIVE	ART UNIT	PAPER NUMBER	
SAN JOSE, CA	A 95131	2814		
			NOTIFICATION DATE	DELIVERY MODE
			09/04/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ip.department.us@nxp.com

		Ар	Application No.		Applicant(s)				
Office Action Summary			/535,368	W	WAGNER ET AL.				
			aminer	Ar	t Unit				
		Sa	rah K. Salerno	28	14				
Period fo	The MAILING DATE of this commun or Reply	nication appears	on the cover shee	et with the corre	espondence ad	dress			
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIN IS SOME THE MAIN IN THE MAIN	MAILING DATE s of 37 CFR 1.136(a). munication. tatutory period will app y will, by statute, cause	OF THIS COMMU In no event, however, ma oly and will expire SIX (6) the application to become	UNICATION. ay a reply be timely fi MONTHS from the n me ABANDONED (3)	iled nailing date of this co 5 U.S.C. § 133).	•			
Status									
	Responsive to communication(s) fil	ed on 18 May 2	005						
2a)□	Responsive to communication(s) filed on <u>18 May 2005</u> . This action is FINAL . 2b)⊠ This action is non-final.								
3)□		<i>7</i> —		natters nrosec	cution as to the	merits is			
٥/١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims	·	•	·					
· ·		annlication							
,	Claim(s) <u>1-10</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
·	5) Claim(s) is/are allowed. 6) Claim(s) <u>1-10</u> is/are rejected.								
	Claim(s) is/are objected to.								
•	Claim(s) are subject to restri	ction and/or ele	ction requirement						
ت (۵	ciaiii(s) are subject to restri	ction and/or cic	cuon requirement						
Applicati	on Papers								
9)🛛	The specification is objected to by the	ne Examiner.							
10)🛛	The drawing(s) filed on <u>18 May 200</u>	<u>5</u> is/are∶ a)⊠ a	ccepted or b)∏ o	bjected to by tl	ne Examiner.				
	Applicant may not request that any object	ection to the draw	ing(s) be held in abe	eyance. See 37	CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority ι	ınder 35 U.S.C. § 119								
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:									
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
	application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.									
Attachmen	t(s)								
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)									
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Informal Patent Application									
	r No(s)/Mail Date <u>05/18/05</u> .		· —	:	LL				

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DETAILED ACTION

Specification

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (I) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

Content of Specification

(a) <u>Title of the Invention</u>: See 37 CFR 1.72(a) and MPEP § 606. The title of the invention should be placed at the top of the first page of the specification unless the title is provided in an application data sheet. The title of the invention should be brief but technically accurate and descriptive, preferably from two to seven words may not contain more than 500 characters.

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(b) <u>Cross-References to Related Applications</u>: See 37 CFR 1.78 and MPEP § 201.11.

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- (c) <u>Statement Regarding Federally Sponsored Research and Development</u>: See MPEP § 310.
- (d) <u>The Names Of The Parties To A Joint Research Agreement</u>: See 37 CFR 1.71(g).
- (e) Incorporation-By-Reference Of Material Submitted On a Compact Disc: The specification is required to include an incorporation-by-reference of electronic documents that are to become part of the permanent United States Patent and Trademark Office records in the file of a patent application. See 37 CFR 1.52(e) and MPEP § 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text were permitted as electronic documents on compact discs beginning on September 8, 2000.
- (f) <u>Background of the Invention</u>: See MPEP § 608.01(c). The specification should set forth the Background of the Invention in two parts:
 - (1) Field of the Invention: A statement of the field of art to which the invention pertains. This statement may include a paraphrasing of the applicable U.S. patent classification definitions of the subject matter of the claimed invention. This item may also be titled "Technical Field."
 - (2) Description of the Related Art including information disclosed under 37 CFR 1.97 and 37 CFR 1.98: A description of the related art known to the applicant and including, if applicable, references to specific related art and problems involved in the prior art which are solved by the applicant's invention. This item may also be titled "Background Art."
- (g) Brief Summary of the Invention: See MPEP § 608.01(d). A brief summary or general statement of the invention as set forth in 37 CFR 1.73. The summary is separate and distinct from the abstract and is directed toward the invention rather than the disclosure as a whole. The summary may point out the advantages of the invention or how it solves problems previously existent in the prior art (and preferably indicated in the Background of the Invention). In chemical cases it should point out in general terms the utility of the invention. If possible, the nature and gist of the invention or the inventive concept should be set forth. Objects of the

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invention should be treated briefly and only to the extent that they contribute to an understanding of the invention.

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- (h) <u>Brief Description of the Several Views of the Drawing(s)</u>: See MPEP § 608.01(f). A reference to and brief description of the drawing(s) as set forth in 37 CFR 1.74.
- (i) Detailed Description of the Invention: See MPEP § 608.01(g). A description of the preferred embodiment(s) of the invention as required in 37 CFR 1.71. The description should be as short and specific as is necessary to describe the invention adequately and accurately. Where elements or groups of elements, compounds, and processes, which are conventional and generally widely known in the field of the invention described and their exact nature or type is not necessary for an understanding and use of the invention by a person skilled in the art, they should not be described in detail. However, where particularly complicated subject matter is involved or where the elements, compounds, or processes may not be commonly or widely known in the field, the specification should refer to another patent or readily available publication which adequately describes the subject matter.
- (j) Claim or Claims: See 37 CFR 1.75 and MPEP § 608.01(m). The claim or claims must commence on separate sheet or electronic page (37 CFR 1.52(b)(3)). Where a claim sets forth a plurality of elements or steps, each element or step of the claim should be separated by a line indentation. There may be plural indentations to further segregate subcombinations or related steps. See 37 CFR 1.75 and MPEP § 608.01(i)-(p).
- (k) Abstract of the Disclosure: See MPEP § 608.01(f). A brief narrative of the disclosure as a whole in a single paragraph of 150 words or less commencing on a separate sheet following the claims. In an international application which has entered the national stage (37 CFR 1.491(b)), the applicant need not submit an abstract commencing on a separate sheet if an abstract was published with the international application under PCT Article 21. The abstract that appears on the cover page of the pamphlet published by the International Bureau (IB) of the World Intellectual Property Organization (WIPO) is the abstract that will be used by the USPTO. See MPEP § 1893.03(e).
- (I) <u>Sequence Listing.</u> See 37 CFR 1.821-1.825 and MPEP §§ 2421-2431. The requirement for a sequence listing applies to all sequences disclosed in a given application, whether the sequences are claimed or not. See MPEP § 2421.02.

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Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, the phrase "for example" renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wong et al. (US Patent 6,026,017) in view of Bretschneider et al (US PGPub 2002/0130248).

Wong teaches claim 1: An electronic memory component, comprising at least one memory cell matrix, which is embedded in and/or let into at least one doped receiving substrate (44), characterized in that the receiving substrate is covered and/or surrounded at least partially and/or on at least one of its surfaces remote from the memory cell matrix by at least one top/protective substrate (46) oppositely doped to the

receiving substrate (Fig. 1-2). Wong does not teach at least one of the substrates for example the receiving substrate and/or in particular the top/protective substrate is in contact or connection with at least one circuit arrangement for the detection of voltages or currents caused by charge carriers generated upon light incidence. Bretschneider teaches a circuit arrangement for the detection of voltages or currents cause by charge carriers generated upon light incidence to protect unauthorized or unpermitted irradiation of the chip arrangement which might change the mode of operation of the chip arrangement [0032]. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the memory cell matrix taught by Wong to use a comparator to protect the device from irradiation that might change the mode of operation of the memory cell taught as taught by Bretschneider [0032]

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Claim 2: Bretschneider teaches the circuit arrangement takes the form of at least one comparator circuit (20) [0032].

Claim 3: Bretschneider teaches if a given limit voltage or a given limit current is exceeded in the circuit arrangement access to the memory component may be denied and/or at least one alarm signal may be emitted to at least one controlling C[entral] P[rocessing]U[nit] [0031, 0033, 0037, 0040-0043].

Claim 4: Wong teaches the top/protective substrate (46) surrounds the receiving substrate (44) in the manner of a well (FIG. 2).

Claim 5: Wong teaches the top/protective substrate (46) is associated with at least one carrier substrate (48).

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Claim 6: Wong teaches the top/protective substrate (46) is buried in the carrier substrate (48).

Claim 7: Wong teaches the receiving substrate (44) is p-doped, the top/protective substrate (46) is n-doped and/or the carrier substrate (48) is p-doped (FIG. 2, Col. 2 line 61).

Claim 8: Wong teaches that there is associated with the memory cell matrix at least one source (32) in particular taking the form of a contact, at least one bitline (14), at least one wordline (12a) and at least one control gate (36a).

Claim 9: Wong teaches the memory component takes the form of an E[rasable] P[rogrammable] R[ead] O[nly] M[emory], an E[lectrical] E[rasable] P[rogrammable] R[ead] O[nly] M[emory] or a Flash memory (Col. 3 line 12).

Claim 10: Bretschneider teaches the continuous detection and/or for in particular permanent sensing of the incidence of light, in particular in the form of at least one light attack, for example on at least one smart card. (Abstract, [0030-0032].

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sarah K. Salerno whose telephone number is (571) 270-1266. The examiner can normally be reached on M-R 7:30-5:00pm every other F 7:30-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/S. K. S./

/Theresa T. Doan/ Primary Examiner, Art Unit 2814